

The Future of UAS

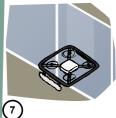
A look into how Unmanned Aerial Systems (UAS) could provide significant benefit through a wide range of applications.

Agriculture / Crop spreading



Autonomous UAS capable of following pre-determined path.

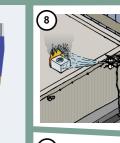
Examples: Dispersing monitoring crops, and agricultural vehicles, measuring topology.



Remote cleaning

Using UAS to clean areas which would require specialist equipment to access.

Examples: Window cleaning on tall buildings, cleaning boats, large vehicles.



Firefighting

Targeted firefighting with rapid response for areas difficult to access with traditional firefiahtina equipment



Construction

Use of swarm of UAS to assemble structures autonomously

Example: Autonomously constructing scaffolding

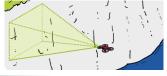


Remote inspection and condition monitoring of assets.

Examples: Wind turbine condition monitoring, solar panel inspection · through visual inspection and / or specialised thermal imaging or acoustic sensors.



assess rate of erosion / risk of collapse







(12)

13)

Multiple UAS working together autonomously to complete tasks - with greater payload capacity, or wider coverage

Examples: Transporting packages, surveying large areas.

Extending distance Use of other transport systems to reduce the ower requirement and

extend range of UAS. Examples: On train to travel long distances then facilitate 'last mile'

delivery by UAS.

FRAZER-NASH

CONSULTANCY

